

ABSTRACT OF THE DISCLOSURE

An electro-optical level includes a bubble level having a tube with a liquid therein and a bubble formed by the liquid in the tube. A substantially linear light source is directed toward and through the tube. A linear lens array focuses light passing through the bubble tube onto a linear lens array for producing an image of the bubble in the bubble level. The lens array employs the focused light to identify precisely end points of the bubble in the tube and then employs locational data for the end points to assess levelness. The electro-optical level further includes an out put display that is pivotally mounted into an optimal alignment for easy viewing by a user.